

**APPLICATION FOR STATION LICENSE**  
**FAMILY WORSHIP CENTER CHURCH, INC.**  
**WJNS-FM RADIO STATION**  
**CH 221A - 92.1 MHZ - 4.8 KW**  
**BENTONIA, MISSISSIPPI**  
**April 2010**

**EXHIBIT A**

**WJNS-FM Transmission System Calculations**

Effective Radiated Power:	
Horizontal/Vertical	4.8 kilowatts
Antenna:	Shively Labs 6813-3-PR
	3 bay full wavelength spaced
Horizontal gain	1.55
Transmission Line:	Andrew Corporation HJ7-50A
(387 feet)	1 5/8 inch air dielectric
	83.8% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	3.695 kilowatts

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Facilities Authorized:	Channel 221A - 92.1 MHz
Effective Radiated Power:	4.8 kilowatts (H/V)
Geographic Coordinates:	North Latitude 32° 33' 25.0"
	West Longitude 90° 20' 14.0"
Antenna Center of Radiation:	Above Ground 110.0 meters
	Above MSL 179.0 meters
	HAAT 111.0 meters
Antenna Structure Registration #:	1215827